

=====

Sequence Listing was accepted.

If you need help call the Patent Electronic Business Center at (866)  
217-9197 (toll free).

Reviewer: Saleem, Syed (ASRC)

Timestamp: [year=2010; month=8; day=2; hr=12; min=15; sec=29; ms=352; ]

=====

Application No: 10535341

Version No: 2.1

Input Set:

Output Set:

Started: 2010-08-02 12:13:53.463

Finished: 2010-08-02 12:13:55.362

Elapsed: 0 hr(s) 0 min(s) 1 sec(s) 899 ms

Total Warnings: 9

Total Errors: 0

No. of SeqIDs Defined: 26

Actual SeqID Count: 26

Error code	Error Description
W 213	Artificial or Unknown found in <213> in SEQ ID (1)
W 213	Artificial or Unknown found in <213> in SEQ ID (2)
W 213	Artificial or Unknown found in <213> in SEQ ID (6)
W 213	Artificial or Unknown found in <213> in SEQ ID (7)
W 213	Artificial or Unknown found in <213> in SEQ ID (11)
W 213	Artificial or Unknown found in <213> in SEQ ID (12)
W 213	Artificial or Unknown found in <213> in SEQ ID (16)
W 213	Artificial or Unknown found in <213> in SEQ ID (19)
W 213	Artificial or Unknown found in <213> in SEQ ID (20)

# SEQUENCE LISTING

<110> HANMI PHARM. IND. CO., LTD.  
 <120> IgG Fc FRAGMENT FOR A DRUG CARRIER AND METHOD FOR THE PREPARATION THEREOF  
 <130> Q115525  
 <140> 10535341  
 <141> 2006-06-09

<150> PCT/KR04/02942  
 <151> 2004-11-13

<150> KR 10-2003-0080299  
 <151> 2003-11-13

<160> 26

<170> KopatentIn 1.71

<210> 1  
 <211> 35  
 <212> DNA  
 <213> Artificial Sequence

<220>  
 <223> primer

<400> 1  
 cgtcatgccc agcacctgag ttcttggggg gacca 35

<210> 2  
 <211> 42  
 <212> DNA  
 <213> Artificial Sequence

<220>  
 <223> primer

<400> 2  
 ggggggatcct catttaccba gagacaggga gaggtctctt tg 42

<210> 3  
 <211> 12  
 <212> PRT  
 <213> Homo sapiens

<400> 3  
 Glu Ser Lys Tyr Gly Pro Pro Cys Pro Ser Cys Pro

1 5 10

<210> 4  
<211> 663  
<212> DNA  
<213> homo sapiens

<400> 4  
tcatgccag cacctgagtt cctgggggga ccatcagttc tctgttccc cccaaaaccc 60  
aaggacactc tcatgatctc cgggaccctt gaggtcacgt gcgtgggtgt ggacgtgagc 120  
caggaagacc ccgaggtcca gttcaactgg tacgtggatg gcgtggaggt gcataatgcc 180  
aagacaaagc cgcggggagga gcagttcaac agcacgtacc gtgtgggtcag cgtcctcacc 240  
gtcctgcacc aggactggct gaacggcaag gagtacaagt gcaaggtctc caacaaaggc 300  
ctcccgctct ccatcgagaa aaccatctcc aaagccaaag ggcagccccg agagccacag 360  
gtgtacaccc tgcccccatc ccaggaggag atgaccaaga accaggtcag cctgacctgc 420  
ctggtcaaag gtttctaccc cagcgacatc gccgtggagt gggagagcaa tgggcagccg 480  
gagaacaact acaagaccac gcctcccggt ctggactccg acggctcctt ctctctctac 540  
agcaggctaa ccgtggacaa gagcagggtg caggagggga atgtcttctc atgctccgtg 600  
atgcatgagg ctctgcacaa ccactacaca cagaagagcc tctccctgtc tctgggtaaa 660  
tga 663

<210> 5  
<211> 69  
<212> DNA  
<213> homo sapiens

<400> 5  
atgaaaaaga caatgcatt tcttcttgca tctatgttcg tttttctat tgctacaaat 60  
gccagggcg 69

<210> 6  
<211> 45  
<212> DNA  
<213> Artificial Sequence

<220>  
<223> primer

<400> 6  
tctattgcta caaatgccca ggccttccca accattccct tatcc 45

<210> 7  
<211> 45  
<212> DNA  
<213> Artificial Sequence

<220>  
<223> primer

<400> 7  
agataacgat gtttacgggt ccggaagggt tggttaaggga atagg 45

<210> 8  
<211> 220  
<212> PRT  
<213> homo sapiens

<400> 8  
Ser Cys Pro Ala Pro Glu Phe Leu Gly Gly Pro Ser Val Phe Leu Phe  
1 5 10 15

Pro Pro Lys Pro Lys Asp Thr Leu Met Ile Ser Arg Thr Pro Glu Val  
20 25 30

Thr Cys Val Val Val Asp Val Ser Gln Glu Asp Pro Glu Val Gln Phe  
35 40 45

Asn Trp Tyr Val Asp Gly Val Glu Val His Asn Ala Lys Thr Lys Pro  
50 55 60

Arg Glu Glu Gln Phe Asn Ser Thr Tyr Arg Val Val Ser Val Leu Thr  
65 70 75 80

Val Leu His Gln Asp Trp Leu Asn Gly Lys Glu Tyr Lys Cys Lys Val  
85 90 95

Ser Asn Lys Gly Leu Pro Ser Ser Ile Glu Lys Thr Ile Ser Lys Ala  
100 105 110

Lys Gly Gln Pro Arg Glu Pro Gln Val Tyr Thr Leu Pro Pro Ser Gln  
115 120 125

Glu Glu Met Thr Lys Asn Gln Val Ser Leu Thr Cys Leu Val Lys Gly  
130 135 140

Phe Tyr Pro Ser Asp Ile Ala Val Glu Trp Glu Ser Asn Gly Gln Pro  
145 150 155 160

Glu Asn Asn Tyr Lys Thr Thr Pro Pro Val Leu Asp Ser Asp Gly Ser  
165 170 175

Phe Phe Leu Tyr Ser Arg Leu Thr Val Asp Lys Ser Arg Trp Gln Glu  
180 185 190

Gly Asn Val Phe Ser Cys Ser Val Met His Glu Ala Leu His Asn His

195

200

205

Tyr Thr Gln Lys Ser Leu Ser Leu Ser Leu Gly Lys  
 210 215 220

<210> 9  
 <211> 654  
 <212> DNA  
 <213> homo sapiens

<400> 9  
 gcacctgagt tcttgggggg accatcagtc ttctgttcc ccccaaaacc caaggacact 60  
 ctcatgatct cccggacccc tgaggtcacg tgcgtggtgg tggacgtgag ccaggaagac 120  
 cccgaggtcc agttcaactg gtacgtggat ggcgtggagg tgcataatgc caagacaaag 180  
 ccgcgggagg agcagttcaa cagcacgtac cgtgtggtca gcgtcctcac cgtcctgcac 240  
 caggactggc tgaacggcaa ggagtacaag tgcaaggtct ccaacaaagg cctcccgtcc 300  
 tccatcgaga aaaccatctc caaagccaaa ggcagcccc gagagccaca ggtgtacacc 360  
 ctgcccccat cccaggagga gatgaccaag aaccaggtca gcctgacctg cctggtcaaa 420  
 ggcttctacc ccagcgacat cgccgtggag tgggagagca atgggcagcc ggagaacaac 480  
 tacaagacca cgctcccgt gctggactcc gacggctcct tcttctcta cagcaggcta 540  
 accgtggaca agagcaggtg gcaggagggg aatgtcttct catgctccgt gatgcatgag 600  
 gctctgcaca accactacac acagaagagc ctctccctgt ctctgggtaa atga 654

<210> 10  
 <211> 217  
 <212> PRT  
 <213> homo sapiens

<400> 10  
 Ala Pro Glu Phe Leu Gly Gly Pro Ser Val Phe Leu Phe Pro Pro Lys  
 1 5 10 15  
 Pro Lys Asp Thr Leu Met Ile Ser Arg Thr Pro Glu Val Thr Cys Val  
 20 25 30  
 Val Val Asp Val Ser Gln Glu Asp Pro Glu Val Gln Phe Asn Trp Tyr  
 35 40 45  
 Val Asp Gly Val Glu Val His Asn Ala Lys Thr Lys Pro Arg Glu Glu  
 50 55 60  
 Gln Phe Asn Ser Thr Tyr Arg Val Val Ser Val Leu Thr Val Leu His  
 65 70 75 80  
 Gln Asp Trp Leu Asn Gly Lys Glu Tyr Lys Cys Lys Val Ser Asn Lys

[illegible]

<400> 13  
 Glu Pro Lys Ser Cys Asp Lys Thr His Thr Cys Pro Pro Cys Pro  
 1 5 10 15

<210> 14  
 <211> 660  
 <212> DNA  
 <213> homo sapiens

<400> 14  
 ccgtgcccag cacctgaact cctgggggga ccgtcagtct tcctcttccc cccaaaaccc 60  
 aaggacaccc tcattgatctc ccggaccctt gaggtcacat gcgtgggtgt ggacgtgagc 120  
 cacgaagacc ctgaggtcaa gttcaactgg tacgtggacg gcgtggaggt gcataatgcc 180  
 aagacaaaagc cgcggggagga gcagtacaac agcacgtacc gtgtgggtcag cgtcctcacc 240  
 gtctctgcacc aggactggct gaatggcaag gactacaagt gcaagggtctc caacaaagcc 300  
 ctcccagccc ccattcgagaa aaccattctc aaagccaaag ggcagccccg agagccacag 360  
 gtgtacaccc tgcccccatc ccgggatgag ctgaccaaga accaggtcag cctgacctgc 420  
 ctggtcaaag gcttctatcc cagcgacatc gccgtggagt gggagagcaa tgggcagccg 480  
 gagaacaact acaagaccac gcctcccggtg ctggactccg acggtctctt cttcctctac 540  
 agcaagctca ccgtggacaa gagcaggtgg cagcagggga acgtcttctc atgctccgtg 600  
 atgcatgagg ctctgcacaa ccaactacag cagaagagcc tctccctgtc tccgggtaaa 660

<210> 15  
 <211> 220  
 <212> PRT  
 <213> homo sapiens

<400> 15  
 Pro Cys Pro Ala Pro Glu Leu Leu Gly Gly Pro Ser Val Phe Leu Phe  
 1 5 10 15  
 Pro Pro Lys Pro Lys Asp Thr Leu Met Ile Ser Arg Thr Pro Glu Val  
 20 25 30  
 Thr Cys Val Val Val Asp Val Ser His Glu Asp Pro Glu Val Lys Phe  
 35 40 45  
 Asn Trp Tyr Val Asp Gly Val Glu Val His Asn Ala Lys Thr Lys Pro  
 50 55 60  
 Arg Glu Glu Gln Tyr Asn Ser Thr Tyr Arg Val Val Ser Val Leu Thr  
 65 70 75 80



Val Leu His Gln Asp Trp Leu Asn Gly Lys Glu Tyr Lys Cys Lys Val  
85 90 95

Ser Asn Lys Ala Leu Pro Ala Pro Ile Glu Lys Thr Ile Ser Lys Ala  
100 105 110

Lys Gly Gln Pro Arg Glu Pro Gln Val Tyr Thr Leu Pro Pro Ser Arg  
115 120 125

Asp Glu Leu Thr Lys Asn Gln Val Ser Leu Thr Cys Leu Val Lys Gly  
130 135 140

Phe Tyr Pro Ser Asp Ile Ala Val Glu Trp Glu Ser Asn Gly Gln Pro  
145 150 155 160

Glu Asn Asn Tyr Lys Thr Thr Pro Pro Val Leu Asp Ser Asp Gly Ser  
165 170 175

Phe Phe Leu Tyr Ser Lys Leu Thr Val Asp Lys Ser Arg Trp Gln Gln  
180 185 190

Gly Asn Val Phe Ser Cys Ser Val Met His Glu Ala Leu His Asn His  
195 200 205

Tyr Thr Gln Lys Ser Leu Ser Leu Ser Pro Gly Lys  
210 215 220

<210> 16  
<211> 26  
<212> DNA  
<213> Artificial Sequence

<220>  
<223> primer

<400> 16  
cggcacctga actcctgggg ggaccg 26

<210> 17  
<211> 651  
<212> DNA  
<213> homo sapiens

<400> 17  
gcacctgaac tctctggggg accgtcagtc ttcctcttcc ccccaaaacc caaggacacc 60  
ctcatgatct cccggacccc tgaggtcaca tgcgtggtgg tggacgtgag ccacgaagac 120  
cctgaggtca agttcaactg gtacgtggac ggcgtggagg tgcataatgc caagacaaag 180  
ccgcgggagg agcagtacaa cagcacgtac cgtgtggtca gcgtcctcac cgtcctgcac 240  
caggactggc tgaatggcaa ggagtacaag tgcaaggtct ccaacaaagc cctcccagcc 300

```

cccatcgaga aaaccatctc caaagccaaa gggcagcccc gagagccaca ggtgtacacc 360
ctgcccccat cccgggatga gctgaccaag aaccagggtca gcctgacctg cctgggtcaaa 420
ggctttctatc ccagcgacat cgccgtggag tgggagagca atgggcagcc ggagaacaac 480
tacaagacca cgctcccggt gctggactcc gacggtctct tcttcctcta cagcaagctc 540
accgtggaca agagcagggtg gcagcagggg aacgttttct catgctccgt gatgcatgag 600
gctctgcaca accactacac gcagaagagc ctctccctgt ctccgggtaa a 651

```

```

<210>      18
<211>      217
<212>      PRT
<213>      homo sapiens

```

```

<400>      18
Ala Pro Glu Leu Leu Gly Gly Pro Ser Val Phe Leu Phe Pro Pro Lys
  1              5              10              15

Pro Lys Asp Thr Leu Met Ile Ser Arg Thr Pro Glu Val Thr Cys Val
      20              25              30

Val Val Asp Val Ser His Glu Asp Pro Glu Val Lys Phe Asn Trp Tyr
      35              40              45

Val Asp Gly Val Glu Val His Asn Ala Lys Thr Lys Pro Arg Glu Glu
      50              55              60

Gln Tyr Asn Ser Thr Tyr Arg Val Val Ser Val Leu Thr Val Leu His
      65              70              75              80

Gln Asp Trp Leu Asn Gly Lys Glu Tyr Lys Cys Lys Val Ser Asn Lys
      85              90              95

Ala Leu Pro Ala Pro Ile Glu Lys Thr Ile Ser Lys Ala Lys Gly Gln
      100              105              110

Pro Arg Glu Pro Gln Val Tyr Thr Leu Pro Pro Ser Arg Asp Glu Leu
      115              120              125

Thr Lys Asn Gln Val Ser Leu Thr Cys Leu Val Lys Gly Phe Tyr Pro
      130              135              140

Ser Asp Ile Ala Val Glu Trp Glu Ser Asn Gly Gln Pro Glu Asn Asn
      145              150              155              160

Tyr Lys Thr Thr Pro Pro Val Leu Asp Ser Asp Gly Ser Phe Phe Leu
      165              170              175

Tyr Ser Lys Leu Thr Val Asp Lys Ser Arg Trp Gln Gln Gly Asn Val
      180              185              190

Phe Ser Cys Ser Val Met His Glu Ala Leu His Asn His Tyr Thr Gln
      195              200              205

```

Lys Ser Leu Ser Leu Ser Pro Gly Lys  
210 215

<210> 19  
<211> 29  
<212> DNA  
<213> Artificial Sequence

<220>  
<223> primer

<400> 19  
cgccgtgccc agcacctccg gtggcggga 29

<210> 20  
<211> 33  
<212> DNA  
<213> Artificial Sequence

<220>  
<223> primer

<400> 20  
gggggatcct catttaccg gagacaggga gag 33

<210> 21  
<211> 12  
<212> PRT  
<213> homo sapiens

<400> 21  
Glu Arg Lys Cys Cys Val Glu Cys Pro Pro Cys Pro  
1 5 10

<210> 22  
<211> 657  
<212> PRT  
<213> homo sapiens

<400> 22  
Cys Cys Gly Thr Gly Cys Cys Cys Ala Gly Cys Ala Cys Cys Thr Cys  
1 5 10 15

Cys Gly Gly Thr Gly Gly Cys Gly Gly Gly Ala Cys Cys Gly Thr Cys  
20 25 30

Ala Gly Thr Cys Thr Thr Cys Cys Thr Cys Thr Thr Cys Cys Cys Cys  
35 40 45

Cys Cys Ala Ala Ala Ala Cys Cys Cys Ala Ala Gly Gly Ala Cys Ala

50		55		60
Cys Cys Cys Thr Cys Ala Thr Gly Ala Thr Cys Thr Cys Cys Cys Gly				
65		70		75 80
Gly Ala Cys Cys Cys Cys Thr Gly Ala Gly Gly Thr Cys Ala Cys Ala				
	85		90	95
Thr Gly Cys Gly Thr Gly Gly Thr Gly Gly Thr Gly Gly Ala Cys Gly				
	100		105	110
Thr Gly Ala Gly Cys Cys Ala Cys Gly Ala Ala Gly Ala Cys Cys Cys				
	115		120	125
Thr Gly Ala Gly Gly Thr Cys Cys Ala Gly Thr Thr Cys Ala Ala Cys				
	130		135	140
Thr Gly Gly Thr Ala Cys Gly Thr Gly Gly Ala Cys Gly Gly Cys Gly				
145		150		155 160
Thr Gly Gly Ala Gly Gly Thr Gly Cys Ala Thr Ala Ala Thr Gly Cys				
	165		170	175
Cys Ala Ala Gly Ala Cys Ala Ala Ala Gly Cys Cys Gly Cys Gly Gly				
	180		185	190
Gly Ala Gly Gly Ala Gly Cys Ala Gly Thr Thr Thr Ala Ala Cys Ala				
	195		200	205
Gly Cys Ala Cys Gly Thr Thr Thr Cys Gly Thr Gly Thr Gly Gly Thr				
	210		215	220
Cys Ala Gly Cys Gly Thr Cys Cys Thr Cys Ala Cys Cys Gly Thr Cys				
225		230		235 240
Gly Thr Gly Cys Ala Cys Cys Ala Gly Gly Ala Cys Thr Gly Gly Cys				
	245		250	255
Thr Gly Ala Ala Thr Gly Gly Cys Ala Ala Gly Gly Ala Gly Thr Ala				
	260		265	270
Cys Ala Ala Gly Thr Gly Cys Cys Ala Ala Gly Gly Thr Cys Thr Cys Cys				
	275		280	285
Ala Ala Cys Ala Ala Ala Gly Gly Cys Cys Thr Cys Cys Cys Ala Gly				
	290		295	300
Cys Cys Cys Cys Cys Ala Thr Cys Gly Ala Gly Ala Ala Ala Ala Cys				
305		310		315 320
Cys Ala Thr Cys Thr Cys Cys Ala Ala Ala Ala Cys Cys Ala Ala Ala				
	325		330	335
Gly Gly Gly Cys Ala Gly Cys Cys Cys Cys Gly Ala Gly Ala Gly Cys				
	340		345	350
Cys Ala Cys Ala Gly Gly Thr Gly Thr Ala Cys Ala Cys Cys Cys Thr				

355

360

365

Gly Cys Cys Cys Cys Cys Ala Thr Cys Cys Cys Gly Gly Gly Ala Ala  
370 375 380

Gly Ala Gly Ala Thr Gly Ala Cys Cys Ala Ala Gly Ala Ala Cys Cys  
385 390 395 400

Ala Gly Gly Thr Cys Ala Gly Cys Cys Thr Gly Ala Cys Cys Thr Gly  
405 410 415

Cys Cys Thr Gly Gly Thr Cys Ala Ala Ala Gly Gly Cys Thr Thr Cys  
420 425 430

Thr Ala Thr Cys Cys Cys Ala Gly Cys Gly Ala Cys Ala Thr Cys Gly  
435 440 445

Cys Cys Gly Thr Gly Gly Ala Gly Thr Gly Gly Gly Ala Gly Ala Gly  
450 455 460

Cys Ala Ala Thr Gly Gly Gly Cys Ala Gly Cys Cys Gly Gly Ala Gly  
465 470 475 480

Ala Ala Cys Ala Ala Cys Thr Ala Cys Ala Ala Gly Ala Cys Cys Ala  
485 490 495

Cys Gly Cys Cys Thr